

EXPLANATION OF PLATES.

The figures on Plate IV, fig. 2, Plate VI, figs. 1, 2, Plate VII, fig. 9, Plate XXI, figs. 1, 2, and Plate XXV, fig. 8, were drawn by Mr. J. H. Blake. Plate XV, figs. 9, 10, 11, were drawn by Mr. J. H. Emerton. The other figures are all camera-lucida drawings by Mr. A. H. Verrill.

PLATE LXXI.

- Fig. 1. *Cardiomya glypta* Bush, p. 810. Dorsal view of type specimen No. 35362; $\times 10$ diameters.
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3. *Cardiomya gemma* Verrill and Bush, p. 809. Dorsal view of specimen No. 41456; $\times 10$.
4. The same. Interior of left valve of the same specimen; \times about 13.
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PLATE LXXII.

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PLATE LXXIII.

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PLATE LXXIV.

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PLATE LXXV.

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PLATE LXXVI.

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- Fig. 7. *Cardiomya glypta* Bush, p. 810. Hinge of both valves of a young specimen No. 35362; $\times 22$.
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PLATE LXXVII.

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4. *Cuspidaria turgida* Verrill and Bush, p. 799. Interior of left valve of type specimen No. 78789; $\times 4$.
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PLATE LXXVIII.

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PLATE LXXIX.

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- Fig. 5. *Yoldiella inconspicua* Verrill and Bush, p. 869. Interior of left valve of a specimen from station 947; $\times 15$.
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PLATE LXXX.

- Fig. 1. *Yoldiella iris* Verrill and Bush, variety *stricta* Verrill and Bush, p. 864. Exterior of right valve of type specimen No. 74325; \times about 13.
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8. *Yoldiella inflata* Verrill and Bush, p. 864. Exterior of left valve of type specimen No. 38417; \times about $5\frac{1}{2}$.
9. *Yoldiella lenticula* (Möller) variety *amblia* Verrill and Bush, p. 866. Exterior of left valve of a specimen from station 186; $\times 10$.
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PLATE LXXXI.

- Fig. 1. *Ledella parva* Verrill and Bush, p. 857. Interior of a right valve No. 78365; $\times 25$.
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6. *Nucula proxima* Say (?) variety *ovata* Verrill and Bush, p. 852. Hinge of right valve of specimen No. 73467; \times about 16.
7. *Ledella messanensis* (Seguenza) variety *sublevis* Verrill and Bush, p. 856. Hinge of left valve of specimen No. 35212; \times about 16.
8. *Nucula subovata* Verrill and Bush, p. 852. Interior of left valve of type specimen No. 40474; \times about 13. Showing resilium attached to pit.
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PLATE LXXXII.

- Fig. 1. *Leda caudata* (Donovan), p. 855. Interior of right valve of specimen No. 38205; \times about $5\frac{1}{2}$.
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4. The same. Turned up to show shape of teeth.
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8. *Yoldiella fraterna* Verrill and Bush, p. 867. Hinge of right valve of type specimen from station 947; \times 20.
9. *Leda bushiana* Verrill, p. 854. Hinge of both valves of type specimen No. 35729; \times about $6\frac{1}{2}$.
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11. *Yoldiella iris* Verrill and Bush, p. 863. Hinge of left valve of a young specimen; \times 20.

PLATE LXXXIII.

- Fig. 1. *Crenella fragilis* Verrill, p. 847. Interior of right valve of type specimen No. 41543; \times about 3.
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3. *Yoldiella jeffreysi* (Hidalgo), p. 866. Exterior of a left valve No. 78958; \times about 13.
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5. *Nucula subovata* Verrill and Bush, p. 852. Exterior of left valve of type specimen No. 40476; \times about 13.
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PLATE LXXXIV.

- Figs. 1 and 2. *Chlamys benedicti* Verrill and Bush, p. 834. Exterior of both valves of a young specimen found among Foraminifera; \times 20.

PLATE LXXXV.

- Fig. 1. *Cyclopecten leptaleus* Verrill, p. 839. Portion of upper or left valve of type specimen No. 38413 to show character of sculpture; \times 10.
2. *Cyclopecten nanus* Verrill and Bush, p. 837. Exterior of lower or right valve of a young specimen from station 2265; \times 5.
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4. The same. Hinge of the same valve; \times 13.
5. *Cyclopecten pustulosus* Verrill, p. 839. Portion of left valve of specimen No. 48765 to show character of sculpture; \times 10.
6. The same. Piece of a left valve of another specimen No. 48761 to show variation in form of pustules; \times about 13.
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- Fig. 8. *Cyclopecten subimbrifer* Verrill and Bush, p. 840. Portion of left valve of specimen No. 48762 to show character of sculpture; $\times 10$;
9. The same. Exterior of left valve of specimen No. 48766 from off Nova-Scotia, in 190 fathoms; $\times 3$.
10. *Cyclopecten pustulosus* Verrill, p. 839. Exterior of left valve of type specimen No. 48764; $\times 3$.
11. The same. Exterior of right valve of another specimen; $\times 3$.

PLATE LXXXVI.

- Fig. 1. *Solemya grandis* Verrill and Bush, p. 885. Exterior of left valve of type specimen No. 51345; $\times 1\frac{1}{2}$.
2. The same. Interior of right valve of an imperfect specimen No. 40103; $\times 1\frac{1}{2}$. Epidermal fringe restored from other specimen.
3. *Cryptodon (Axinulus) pygmaeus* Verrill and Bush, p. 792. Exterior of left valve of specimen No. 78368 from station 2697; $\times 22$.
4. The same. Interior of right valve of a smaller specimen from the same station; $\times 22$.
5. *Nucula cancellata* Jeffreys, p. 854. Exterior of left valve of specimen No. 45795; $\times 12$.
6. *Chlamys costellata* Verrill and Bush, p. 835. Exterior of right valve of type specimen No. 52471; $\times 9$.

PLATE LXXXVII.

- Fig. 1. *Poromya subleris* Verrill, variety *microdonta* Dall, p. 813. Hinge of a left valve No. 78799; $\times 5$.
2. *Verticordia granulifera* (Verrill) Dall, p. 816. Interior of a left valve (type specimen) No. 44838; $\times 4$.
3. *Lyonsiella subquadrata* (Jeffreys), p. 817. Interior of a left valve No. 78800; $\times 10$.
4. *Periploma affinis* Verrill and Bush, p. 822. Exterior of right valve of type specimen from station 873; $\times 4$.
5. *Periploma undulata* Verrill, p. 823. Exterior of left valve of type specimen No. 44840; $\times 4$.
6. *Propeamusium thalassinum* (Dall) Verrill, p. 841. Exterior of upper or left valve of a specimen from station 949; $\times 16$.
7. *Cryptodon (Axinulus) ferruginosus* (Forbes), p. 793. Interior of right valve of specimen No. 34860; $\times 12$.
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PLATE LXXXVIII.

- Fig. 1. *Cryptodon croulinensis* (Jeffreys) Smith, variety *altus* Verrill and Bush, p. 787. Exterior of a left valve from Eastport, Maine, 1870; \times about 8.
2. The same. Interior of a right valve from the same locality; \times about 8.
3. *Cryptodon planus* Verrill and Bush, p. 788. Interior of left valve of type specimen from station 254; $\times 14$.
4. The same. Exterior of right valve of the same specimen.
5. *Nucula proxima* Say (?) variety *ovata* Verrill and Bush, p. 852. Exterior of left valve of specimen No. 73467; \times about 12.
6. *Macoma inflata* Dawson, p. 778. Exterior of left valve of specimen No. 52427; $\times 3$.
7. *Kennerlia brevis* Verrill and Bush, p. 821. *a*, Exterior of left valve of specimen No. 40232; *b*, interior of right valve of another specimen No. 45884; $\times 4$.
8. *Nucula granulosa* Verrill, p. 853. Exterior of left valve of type specimen No. 38451; \times about 26.

PLATE LXXXIX.

- Fig. 1. *Cryptodon obsoletus* Verrill and Bush, p. 789. Exterior of right valve of a specimen from station 949; \times about 20.
2. The same. Interior of left valve of the same specimen.
 3. *Leptaxinus minutus* Verrill and Bush, p. 797. Hinge of left valve of type specimen No. 45686; \times 45.
 4. The same. Hinge of right valve of the same specimen.
 5. The same. Interior of the same valve; \times 30.
 6. *Cryptodon plicatus* Verrill, p. 786. Interior of left valve of a young specimen No. 44826; \times 9.
 7. *Cryptodon (Axinulus) brevis* Verrill and Bush, p. 790. Exterior of left valve of type specimen from station 2208; \times about 22.
 8. The same. Interior of right valve of the same specimen.

PLATE XC.

- Fig. 1. *Cryptodon (Axinulus) inequalis* Verrill and Bush, p. 791. Exterior of right valve of type specimen from stations 98-99; \times about 10.
2. The same. Interior of left valve of the same specimen.
 3. *Cryptodon croulensis* (Jeffreys) Smith, p. 786. Interior of left valve of a specimen from stations 62-65; \times about 13.
 4. The same. Exterior of right valve of the same specimen.
 5. *Axinodon ellipticus* Verrill and Bush, p. 796. Exterior of right valve of type specimen No. 35175; \times about 13.
 6. The same. Interior of left valve of the same specimen.
 7. *Tellimya ferruginosa* (Montagu), p. 783. Interior of left valve of specimen No. 49588; \times 20. a, Cartilage.
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PLATE XCI.

- Fig. 1. *Cryptodon insignis* Verrill and Bush, p. 785. Interior of a left valve No. 52733 from station 2499; \times about $1\frac{1}{2}$.
2. The same. Exterior of a left valve from the same station; \times about $1\frac{1}{2}$.
 3. *Montacuta triquetra* Verrill and Bush, p. 782. Interior of right valve of type specimen from station 2307; \times 24.
 4. *Montacuta cuneata* Verrill and Bush, p. 782. Exterior of right valve of a specimen from station 2278; \times 17.
 5. *Cryptodon equalis* Verrill and Bush, p. 788. Hinge of both valves of a specimen from station 18 Bache; \times about 5.
 6. The same. Exterior of left valve of specimen No. 74302; \times about 5.
 7. *Cryptodon (Axinulus) ovatus* Verrill and Bush, p. 793. Interior of left valve of type specimen from station 949; \times 35.
 8. *Kelliella nitida* Verrill, p. 778. Interior of left valve of specimen No. 37971; \times 14.

PLATE XCII.

- Fig. 1. *Axinodon ellipticus* Verrill and Bush, p. 796. Hinge of left valve of type specimen No. 35175; \times about $26\frac{1}{2}$.
2. *Limopsis sulcata* Verrill and Bush, p. 845. Interior of a right valve from station 2199; \times 4.
 3. *Cryptodon (Axinulus) simplex* Verrill and Bush, p. 791. Hinge of right valve of type specimen from station 1093; \times about 13.
 4. The same. Interior of left valve of the same specimen.
 5. *Axinopsis orbiculata* Sars, variety *inequalis* Verrill and Bush, p. 794. Interior of left valve of type specimen from Eastport, Maine, 1872; \times about 13.

- Fig. 6. The same. Hinge of both valves of the same specimen; \times about 26.
7. *Montacuta bidentata* (Montagu) variety *tenuis* Verrill and Bush, p. 779. Interior of a right valve from station 2277; \times about 13.
 8. *Montacuta bidentata* (Montagu) variety *fragilis* Verrill and Bush, p. 780. Interior of a right valve No. 46134; \times 17.
 9. *Montacuta ovata* Jeffreys, p. 781. Interior of a right valve No. 46136; \times 20.
 10. The same. Interior of a left valve No. 46137; \times 20.

PLATE XCIII.

- Fig. 1. *Cryptodon* (*Axinulus*) *ovatus* Verrill and Bush, p. 793. Hinge of both valves of type specimen from station 949; \times 45.
2. *Kelliopsis elevata* (Stimpson) Verrill and Bush, p. 784. Hinge of a right valve No. 74333 from Naushon; \times 30. *a*, Resilium and ossicle.
 3. The same. Hinge of another right valve from the same station, to show variation; \times 30.
 4. The same. Hinge of both valves of another specimen from the same station; \times 30.
 5. *Montacuta cuneata* Verrill and Bush, p. 782. Hinge of both valves from station 2278; \times 30.
 6. *Montacuta tumidula* Jeffreys, p. 781. Hinge of a left valve No. 35412; \times 30. *a*, Resilium and ossicle.
 7. *Montacuta bidentata* (Montagu), p. 779. Hinge of a right valve No. 74328 from Naushon; \times 30.
 8. The same. Hinge of both valves of a smaller specimen from the same station; \times 30.
 9. *Montacuta striatula* Verrill and Bush, p. 780. Hinge of a left valve from station 2276; \times 30. Hinge of a right valve from station 2273; \times 30.
 10. *Kelliella nitida* Verrill, p. 778. Hinge of both valves of specimen No. 37971; \times 12. Right valve turned down, left turned up

PLATE XCIV.

- Fig. 1. *Montacuta tumidula* Jeffreys, p. 781. Interior of a left valve No. 35412 from station 2103; \times 20. *a*, Resilium and ossicle.
2. The same. Interior of a right valve from the same station; \times 20.
 3. *Kellia suborbicularis* (Montagu), p. 779. Interior of left valve of a specimen from off Salem, Massachusetts, 1877; \times 10.
 4. The same. Interior of right valve of the same specimen.
 5. *Montacuta casta* Verrill and Bush, p. 781. Exterior of a left valve from station 2283; \times 20.
 6. *Montacuta bidentata* (Montagu), p. 779. Interior of a right valve No. 74328; \times about 13.
 7. *Kelliopsis elevata* (Stimpson) Verrill and Bush, p. 784. Interior of a right valve No. 74333 from Naushon; \times about 13. *a*, Resilium and ossicle.
 8. The same. Exterior of a left valve from the same station; \times about 13.

PLATE XCV.

- Fig. 1. *Lyonsia granulifera* Verrill and Bush, p. 818. Exterior of a left valve (type specimen) No. 52561; \times about 2 $\frac{1}{2}$.
2. *Verticordia granulifera* (Verrill) Dall, p. 816. Hinge of a left valve (type specimen) No. 44838; \times 8.
 3. The same. Hinge of both valves of a fully grown specimen No. 78679; \times 4. Turned up to show ossicle, *a*.
 4. The same. Hinge of a right valve of another specimen No. 78929; \times 6 $\frac{1}{2}$.

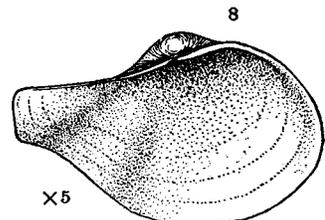
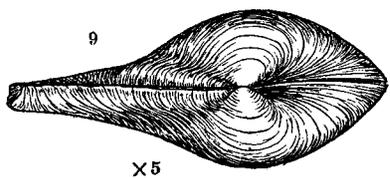
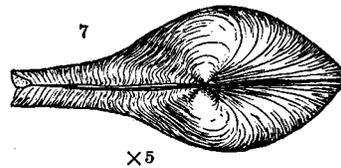
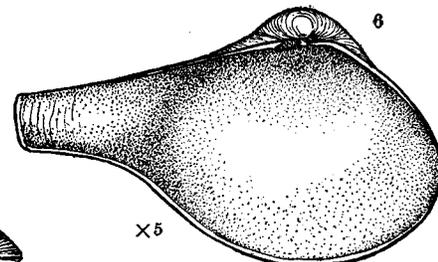
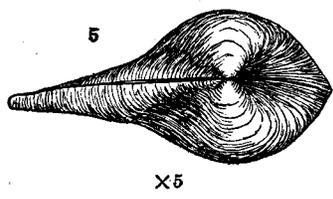
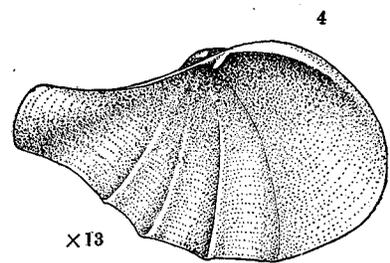
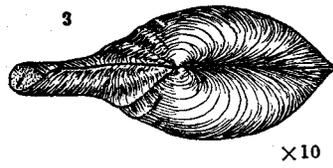
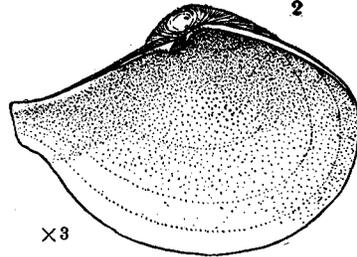
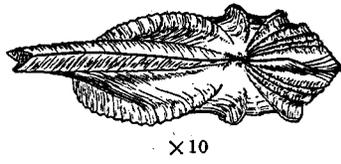
- Fig. 5. *Clidiophora inornata* Verrill and Bush, p. 819. Hinge of both valves of specimen No. 49760 from station 327; \times about $2\frac{1}{2}$.
6. The same. Exterior of a left valve of a specimen from the same station; \times about $2\frac{1}{2}$.
7. *Lyonsiella cordata* Verrill and Bush, p. 818. Hinge of left valve of type specimen No. 52540; \times 8. *a*, Ossicle; *b*, ligament.
8. The same. Exterior of right valve of the same specimen; \times about 4.
9. *Limopsis sulcata* Verrill and Bush, p. 845. Hinge of a right valve from station 2199; \times about $10\frac{1}{2}$.
10. *Nucula verrillii* Dall, p. 853. Hinge of left valve of specimen No. 45752; \times about 26.

PLATE XCVI.

- Fig. 1. *Limopsis sulcata* Verrill and Bush, p. 845. Exterior of a right valve from station 2199; \times 16.
2. *Choristodon* (?) *cancellatus* Verrill, p. 778. Hinge of a left valve (type specimen) No. 44839; \times 16.
3. The same. Exterior of the same valve; \times 6.

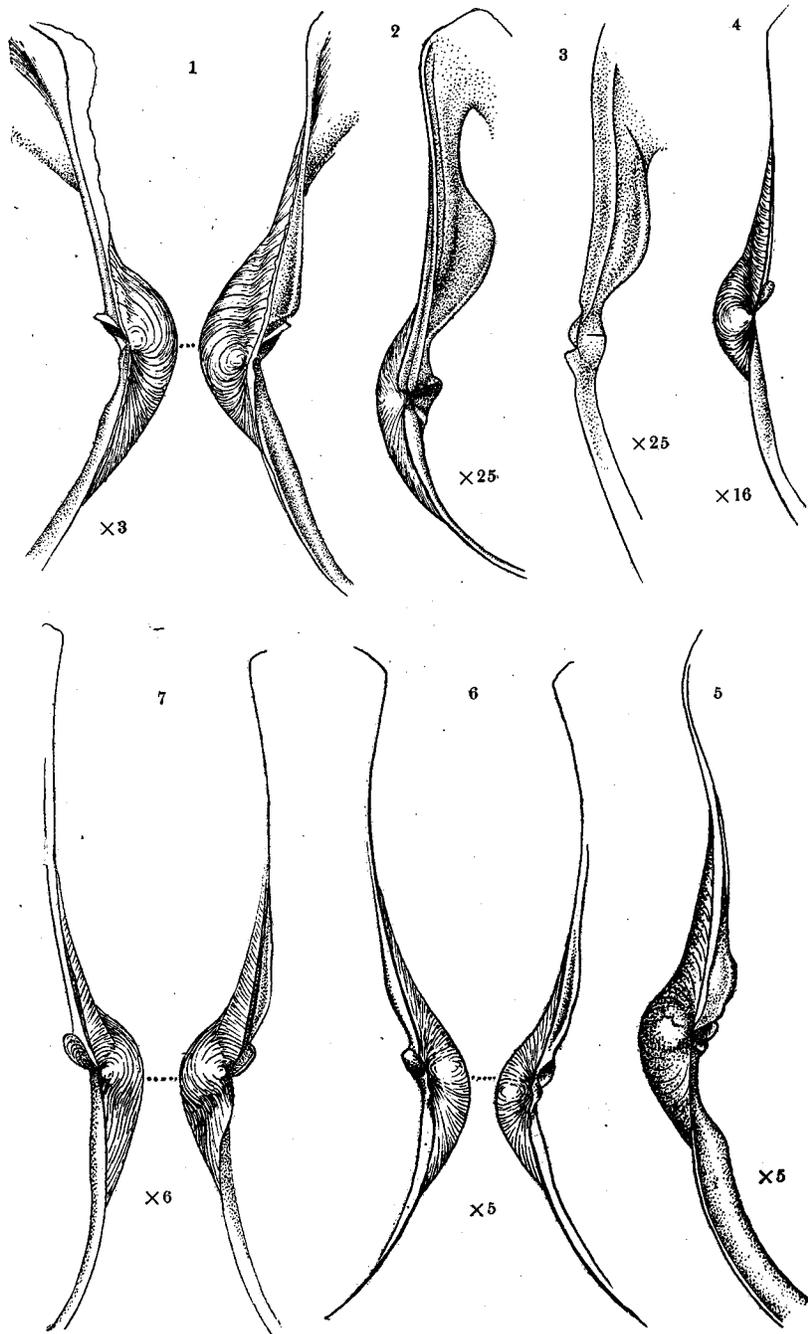
PLATE XCVII.

- Fig. 1. *Glomus nitens* Jeffreys, p. 848. Interior of left valve of specimen No. 78784; \times 12.
2. The same. Hinge of the same; \times 20.
3. *Yoldiella expansa* (Jeffreys), p. 871. Interior of right valve of specimen No. 78363; \times 16.
4. *Malletia obtusa* (M. Sars) Mörch, p. 874. Interior of left valve of a very young specimen from station 2706; \times 20.
5. *Axinopsis cordata* Verrill and Bush, p. 795. Interior of a left valve from station 2307; \times 16.
6. The same. Interior of a right valve from station 1092; \times 16.
7. *Malletia abyssorum* Verrill and Bush, p. 875. Interior of right valve of type specimen No. 52159; \times 12.
8. *Yoldiella curta* Verrill and Bush, p. 868. Interior of right valve of type specimen No. 38457; \times 20.
9. *Hyalopecten dilectus* Verrill and Bush, p. 836. A portion of the exterior of both valves of type specimen No. 52539; \times 8.



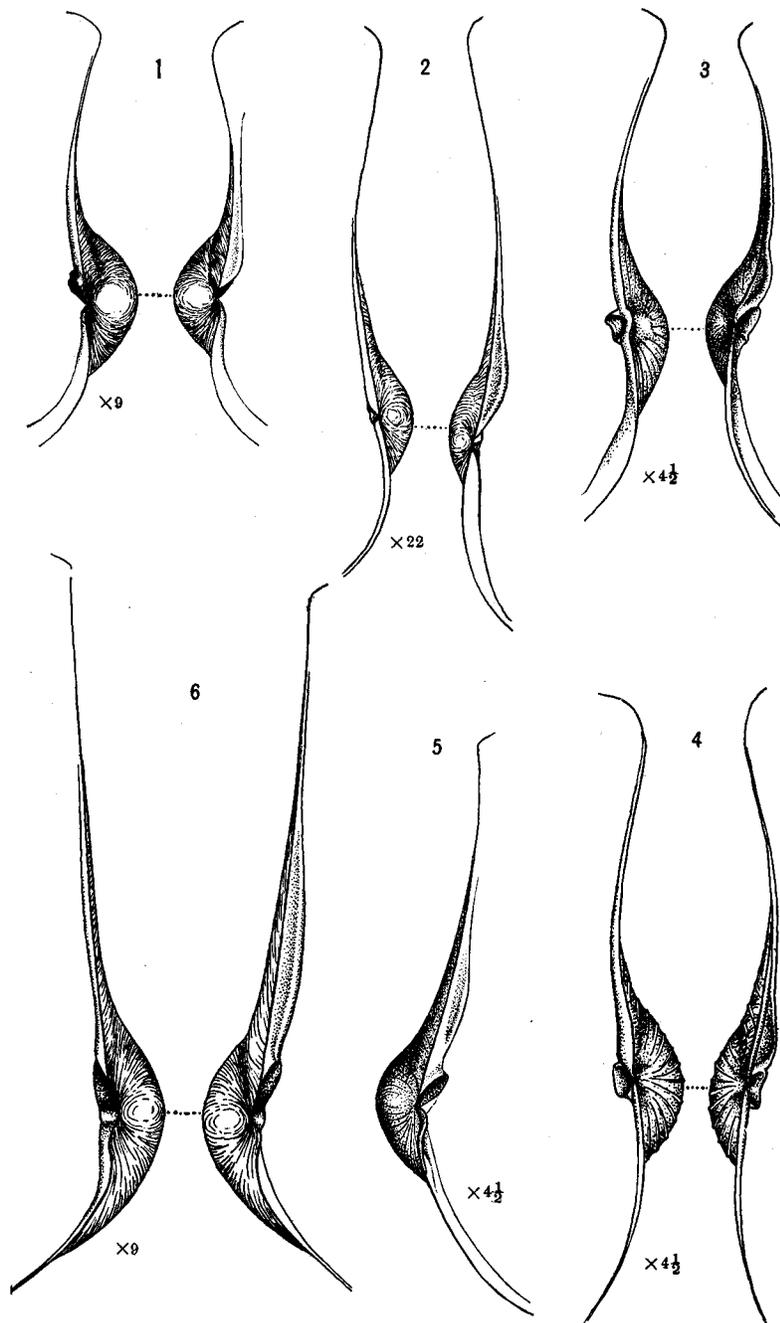
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FOR EXPLANATION OF PLATE SEE PAGE 888.



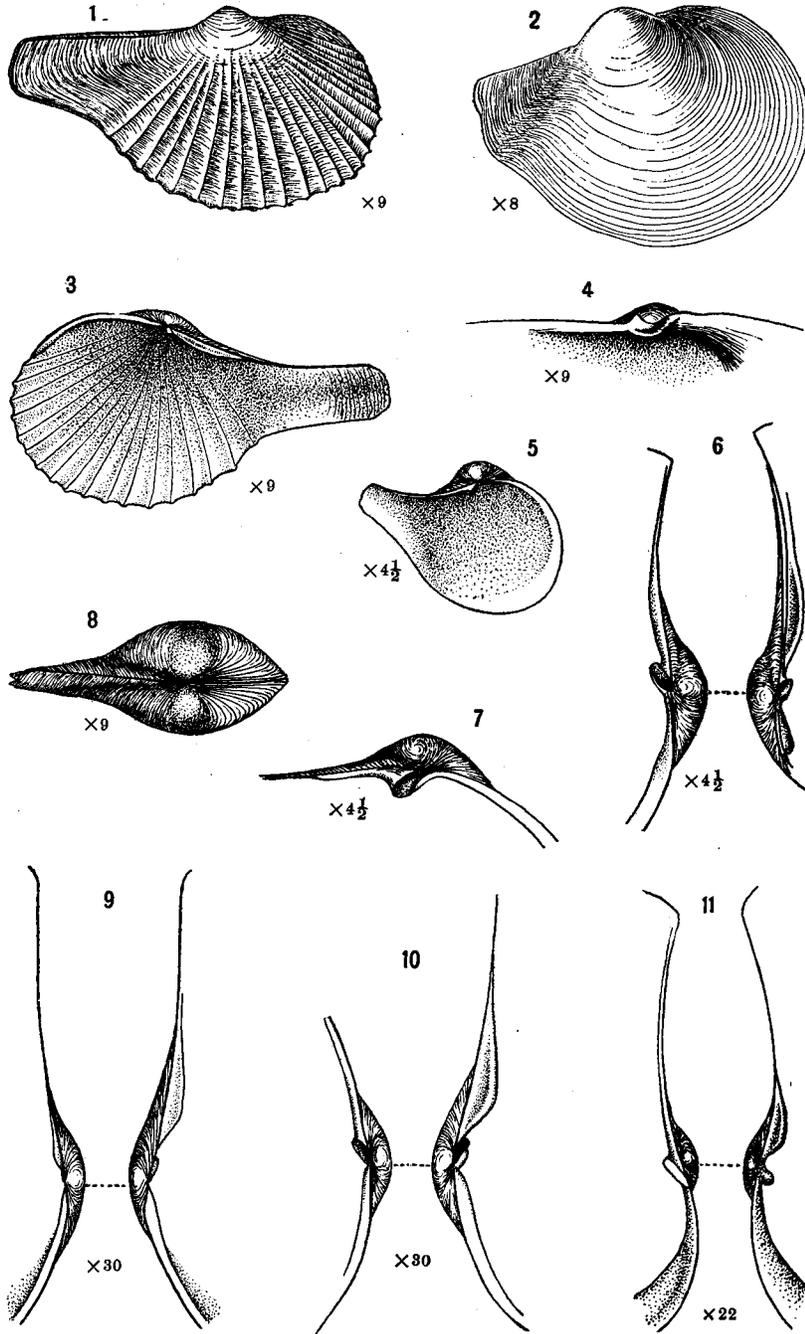
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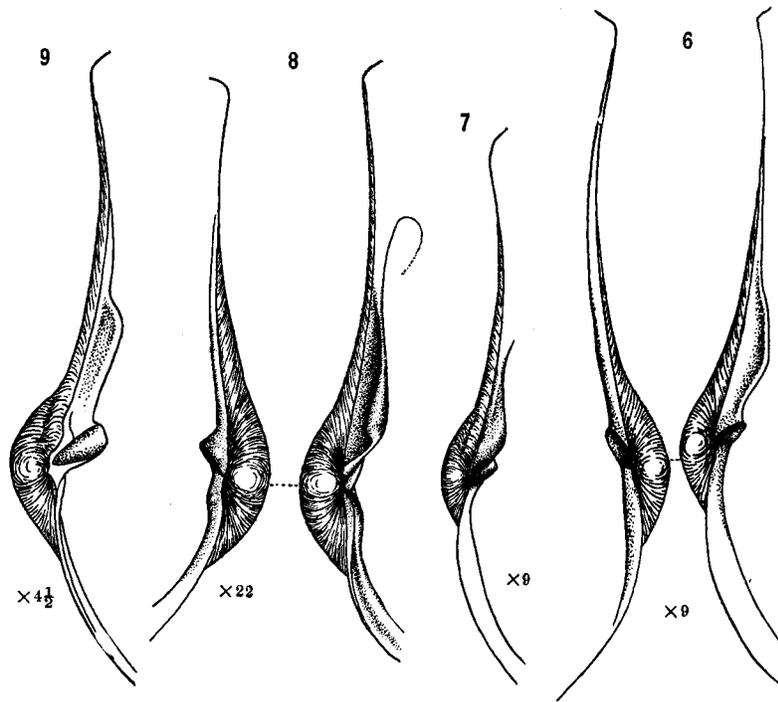
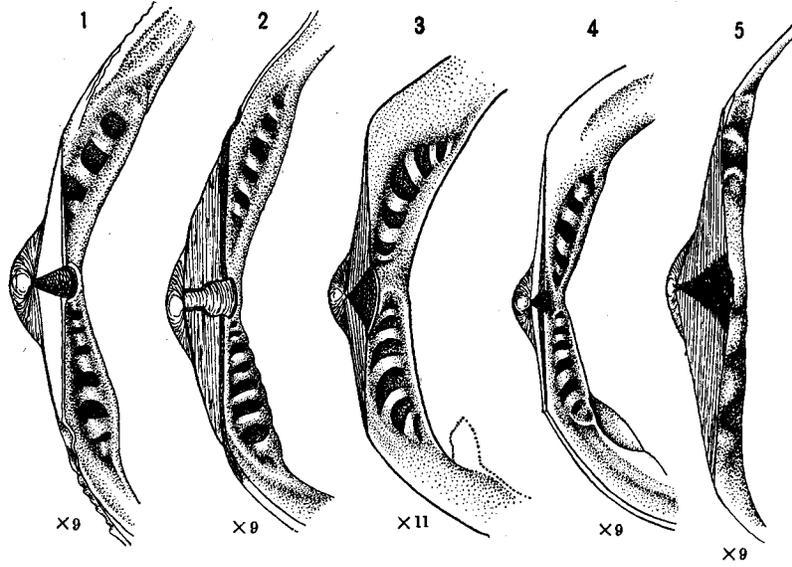
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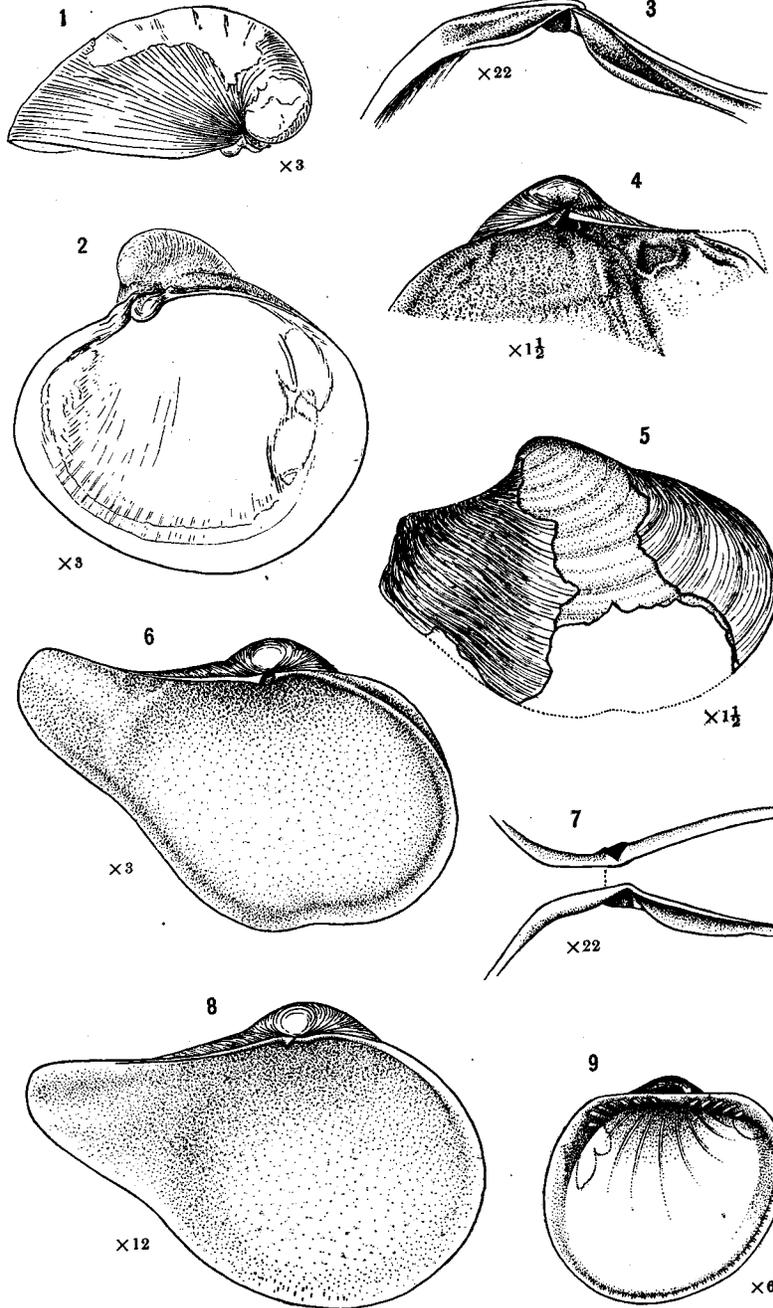
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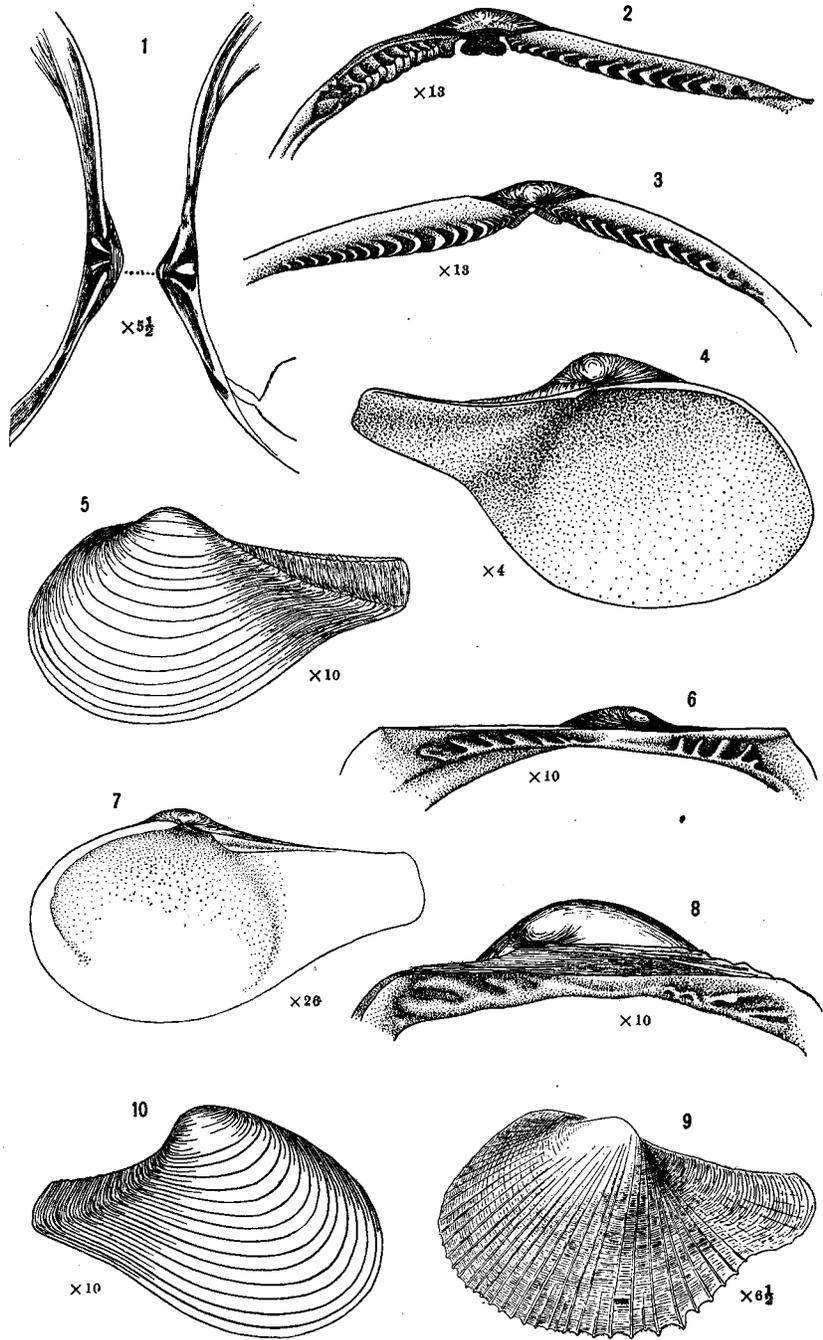
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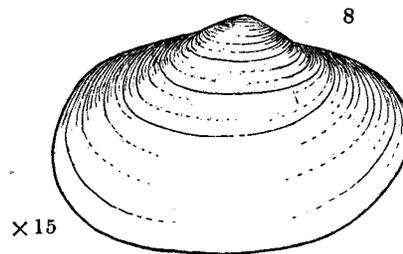
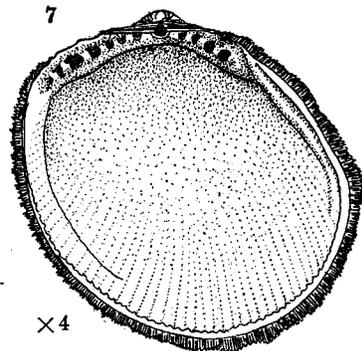
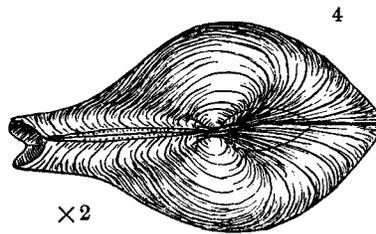
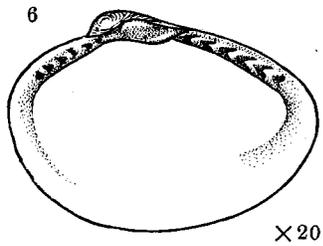
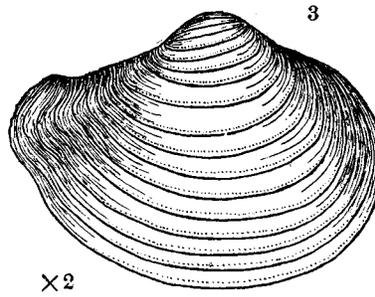
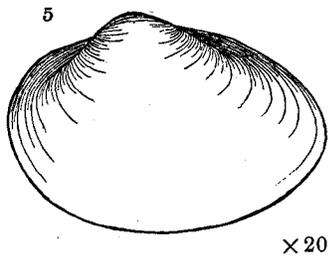
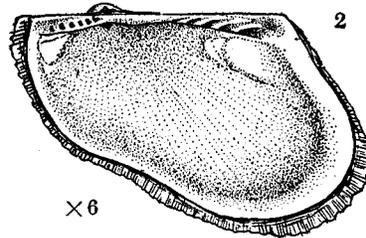
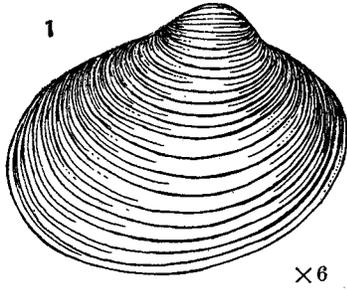
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FOR EXPLANATION OF PLATE SEE PAGES 889, 890.



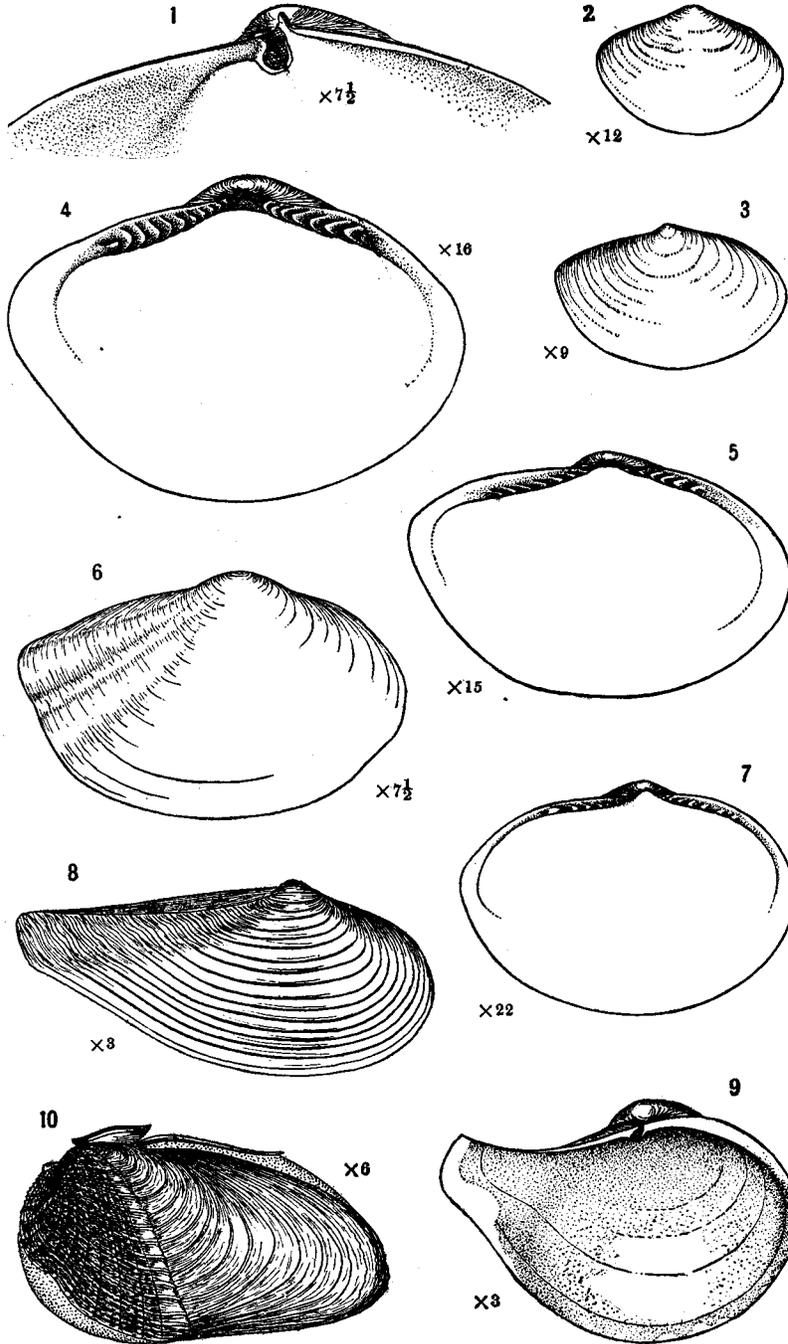
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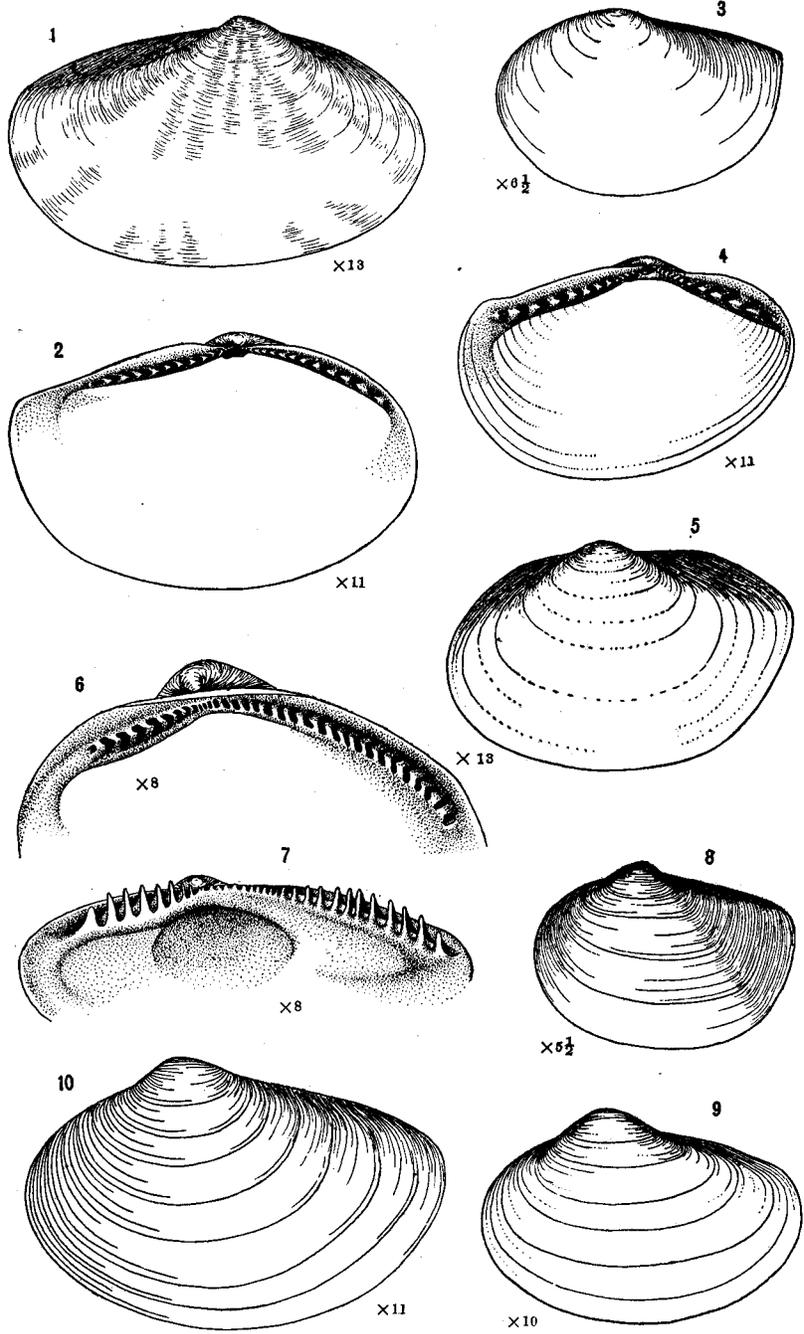
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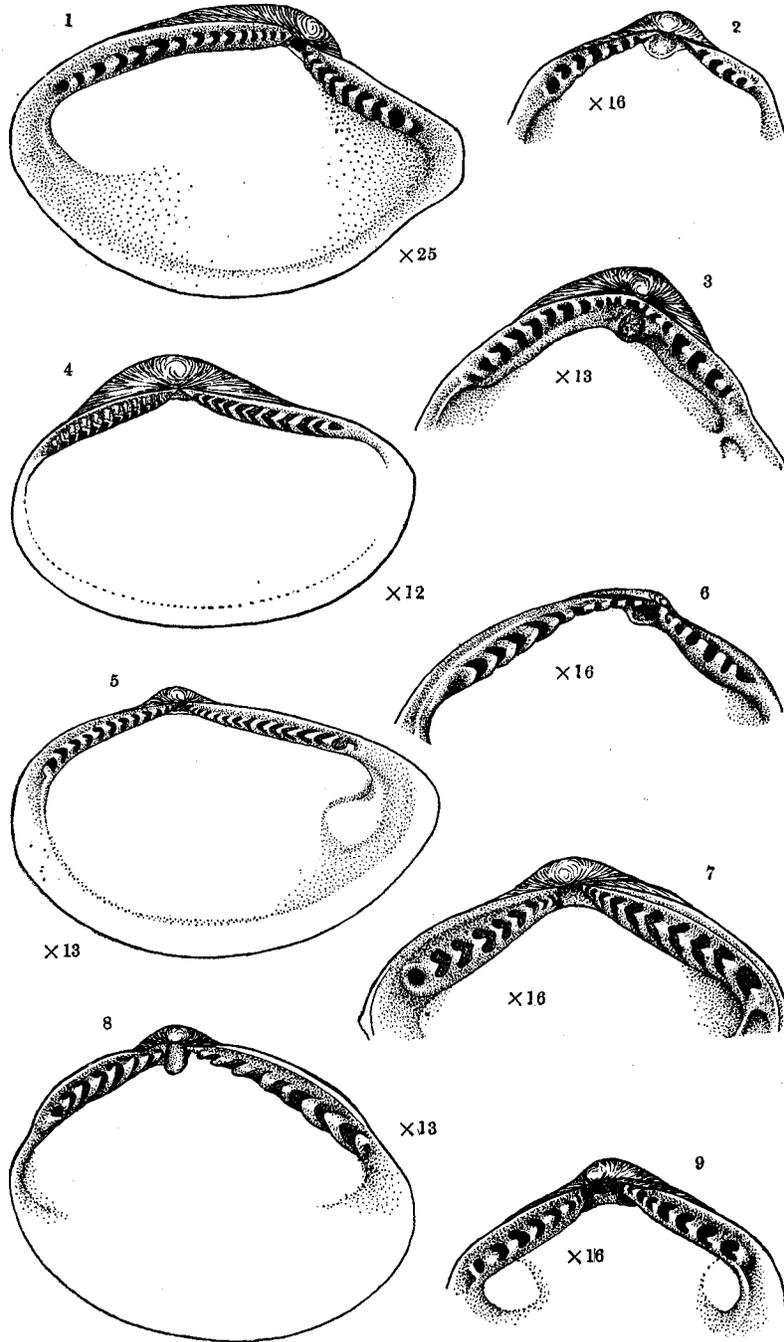
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FOR EXPLANATION OF PLATE SEE PAGES 890, 891.



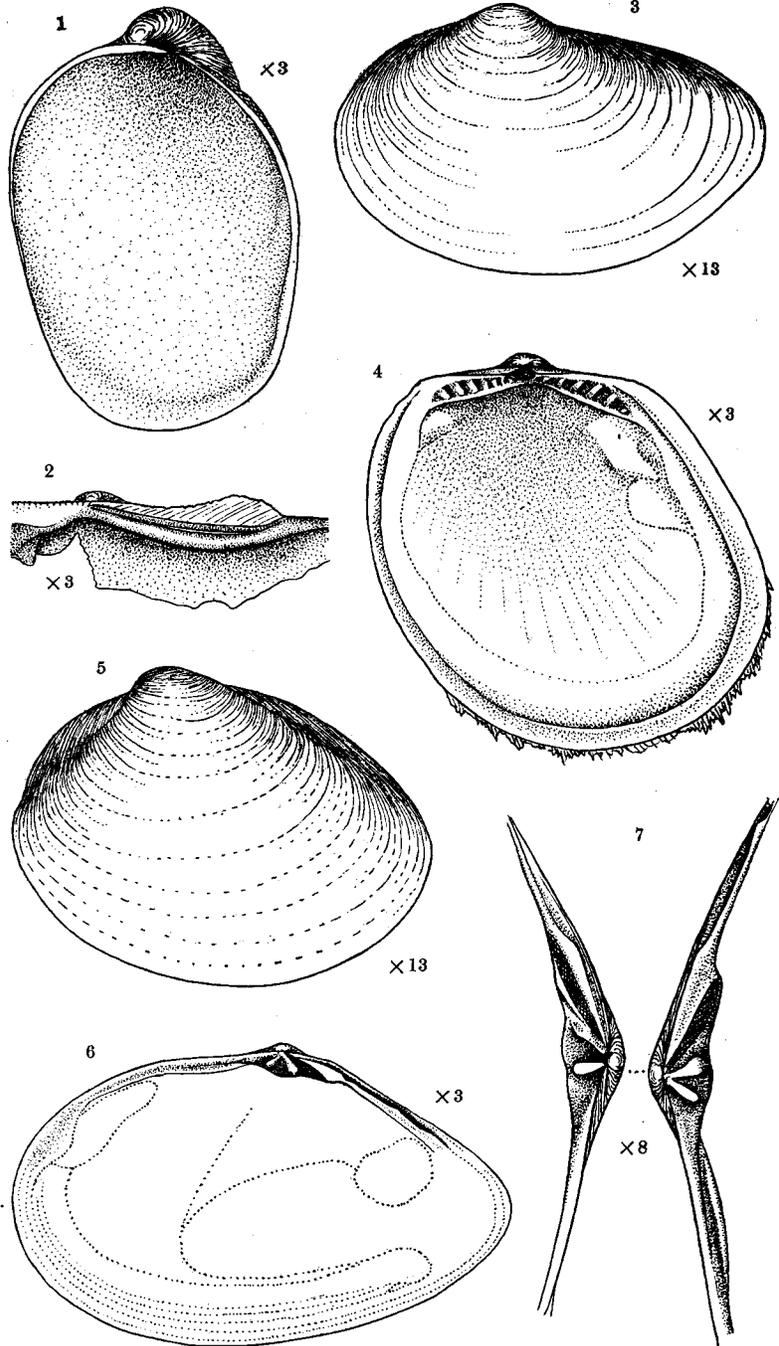
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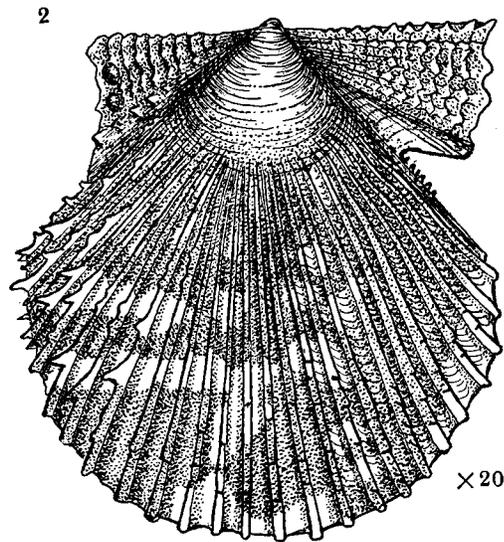
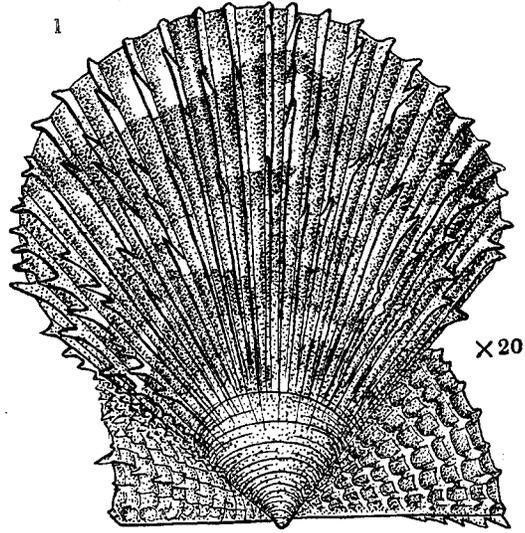
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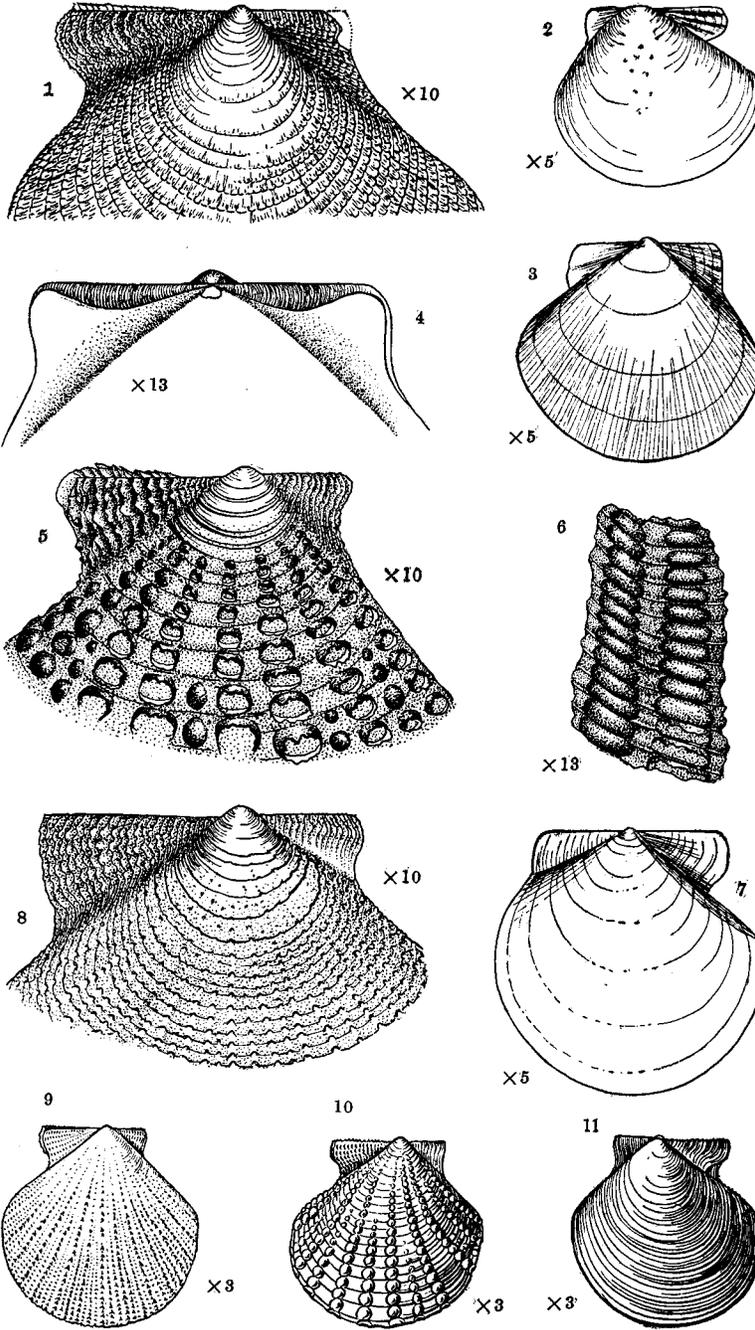
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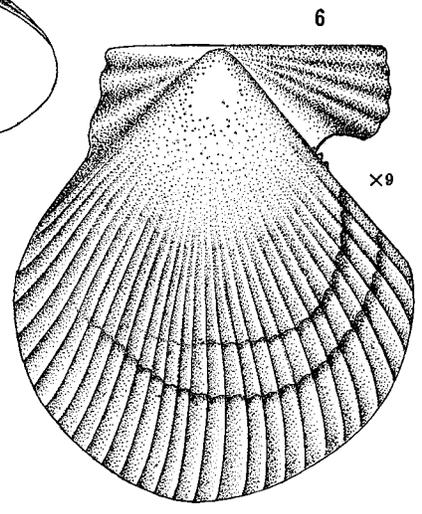
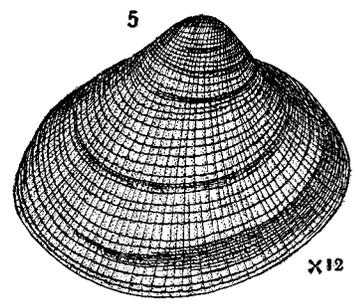
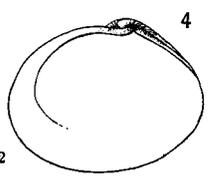
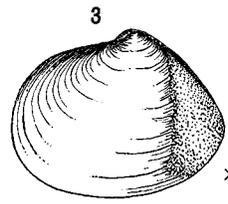
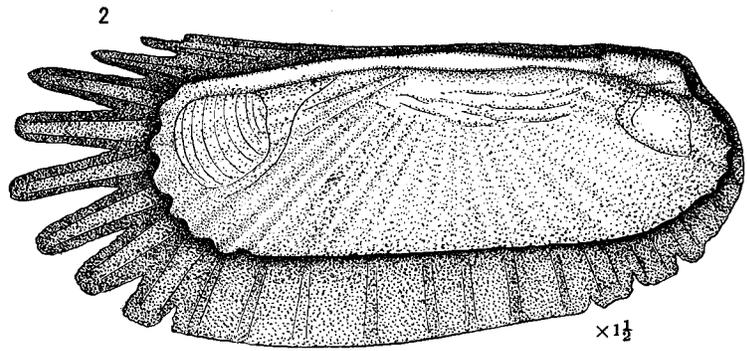
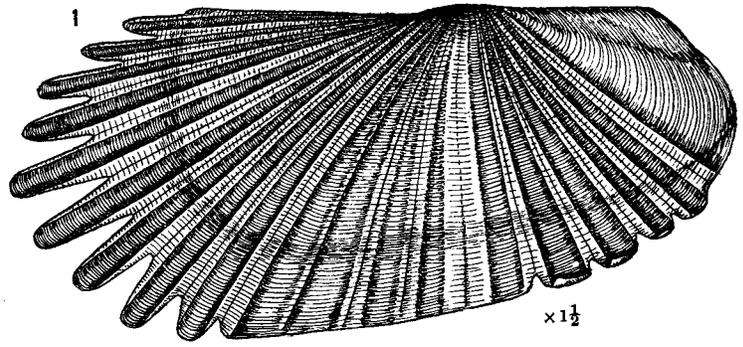
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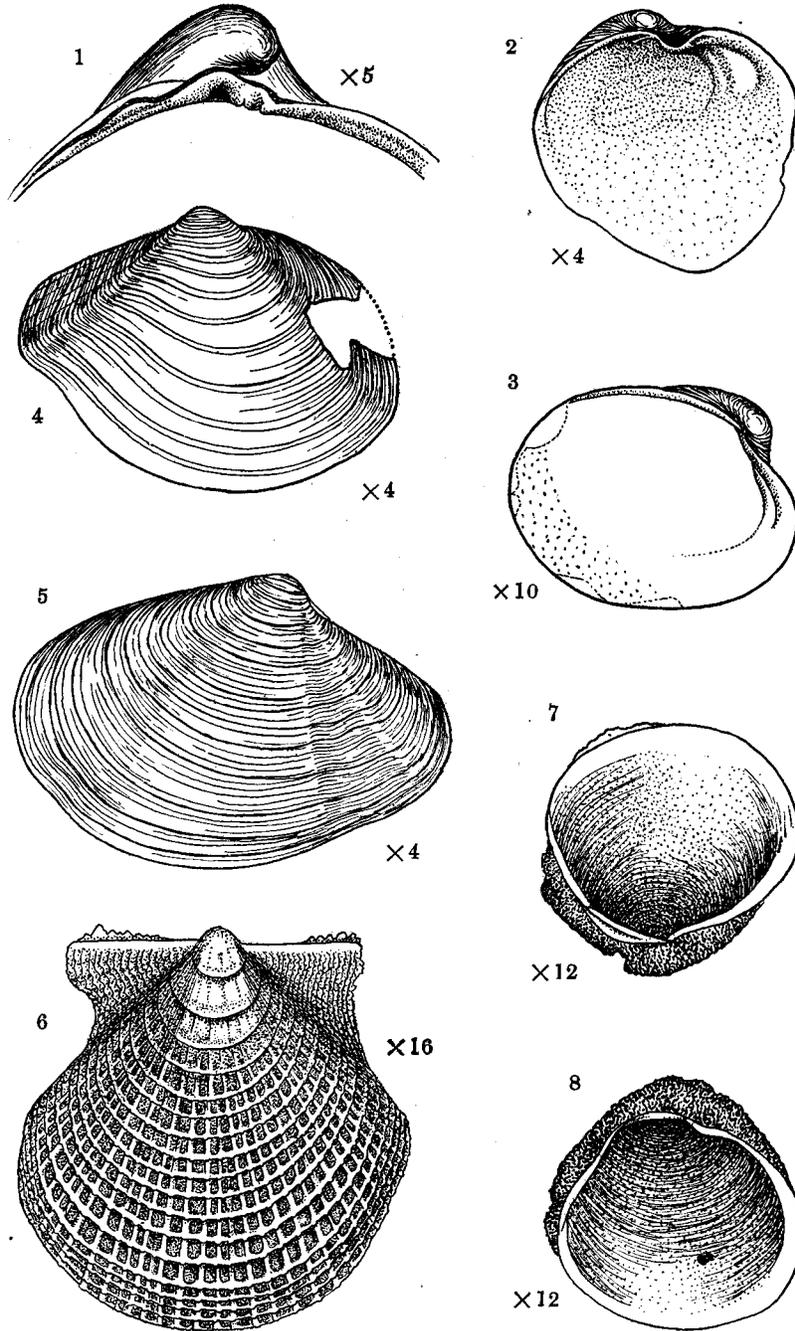
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FOR EXPLANATION OF PLATE SEE PAGES 892, 893.



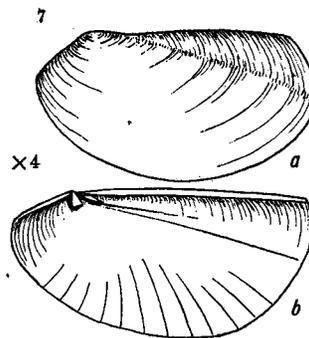
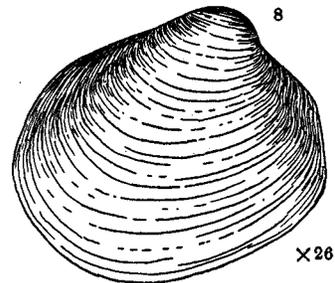
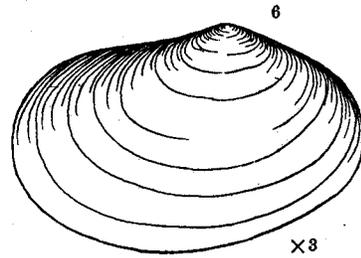
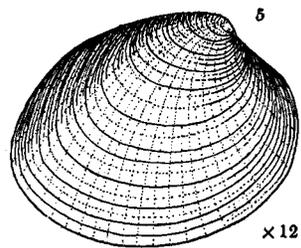
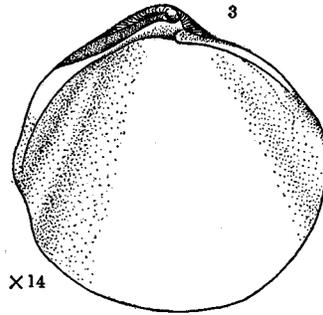
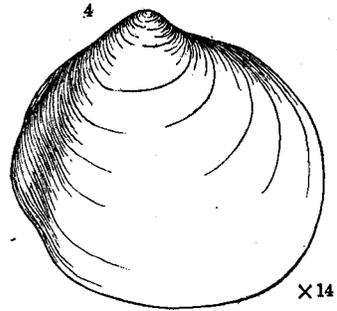
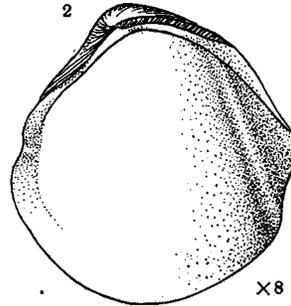
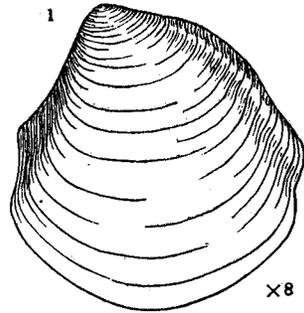
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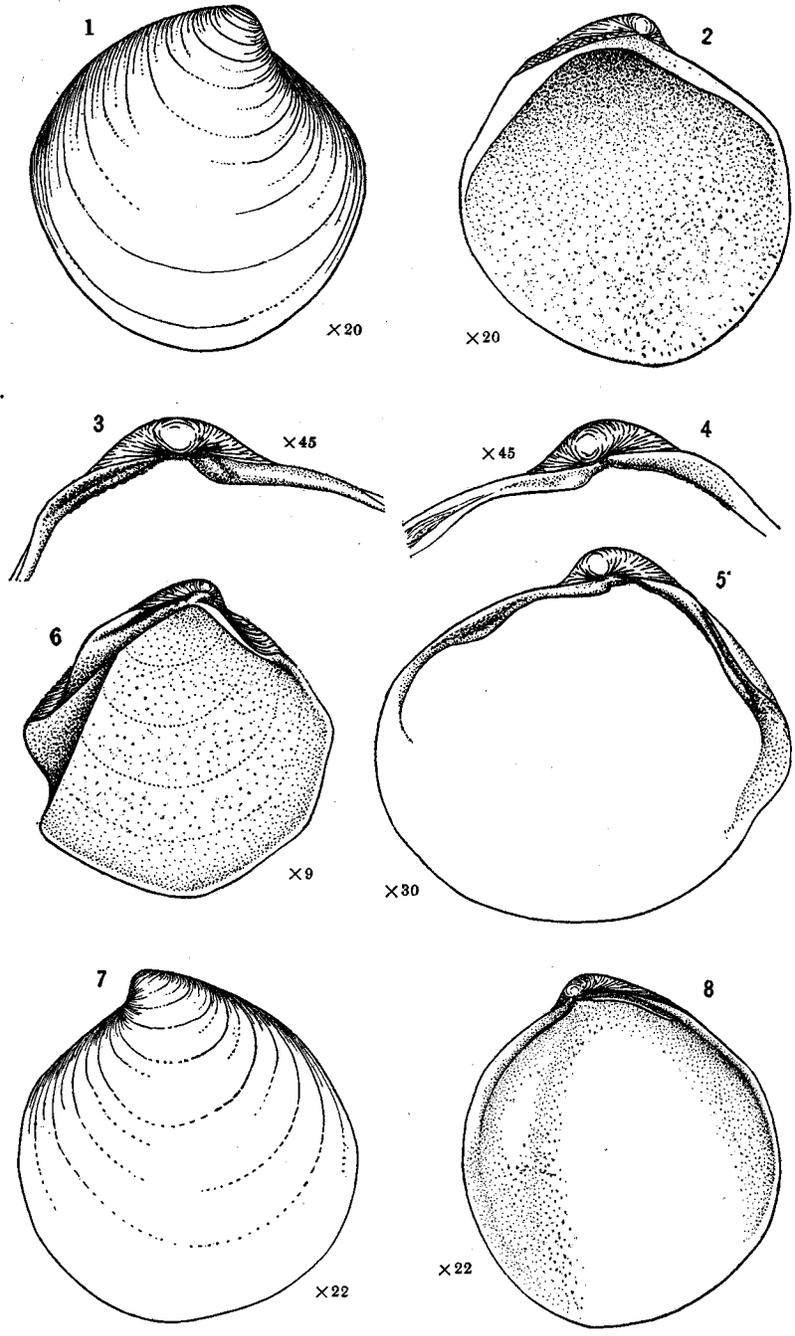
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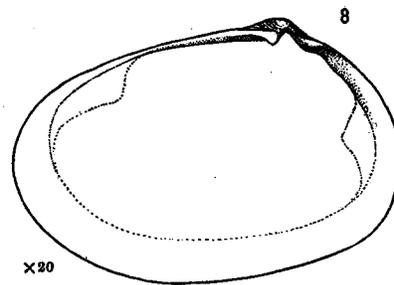
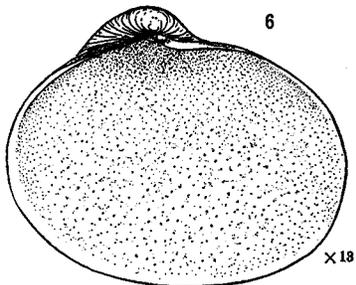
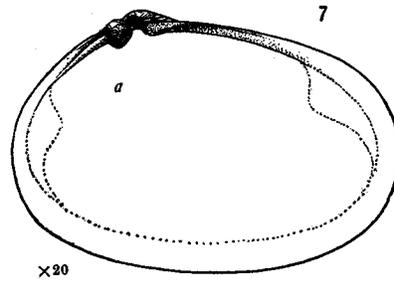
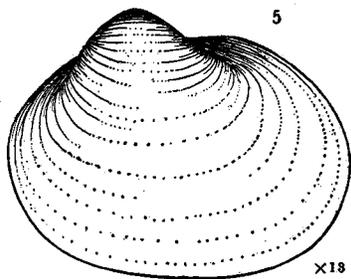
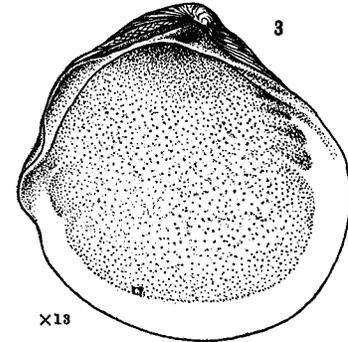
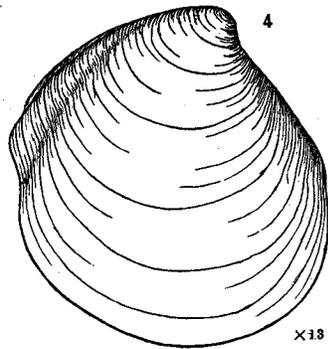
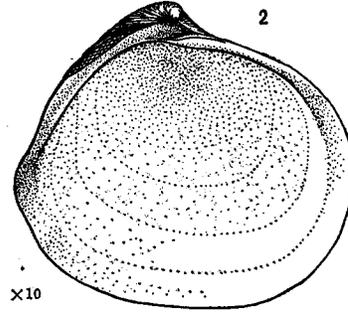
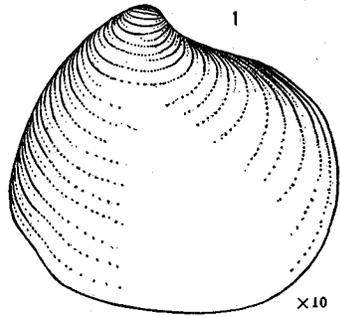
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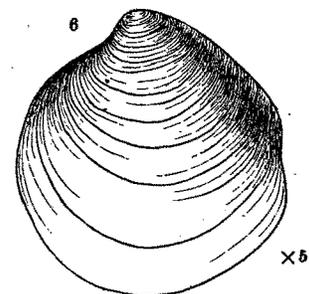
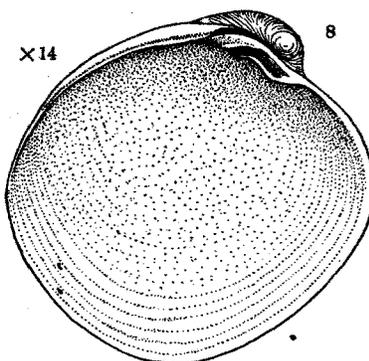
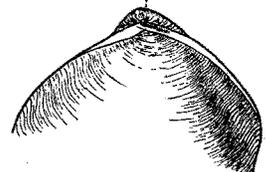
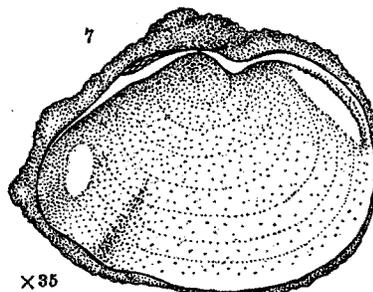
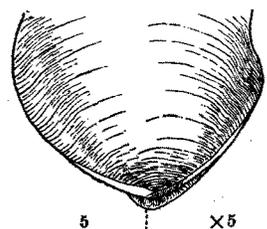
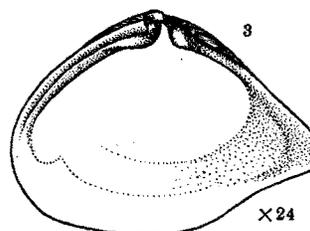
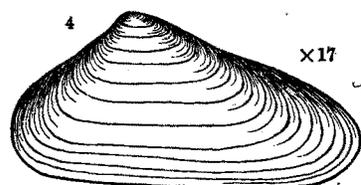
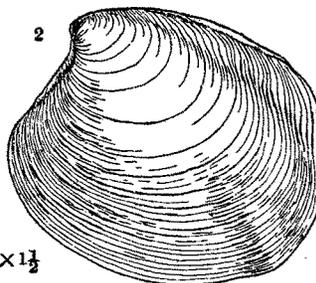
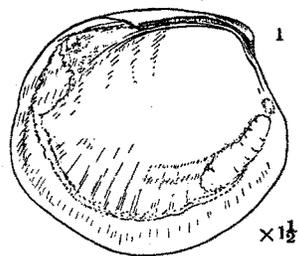
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FOR EXPLANATION OF PLATE SEE PAGE 894.



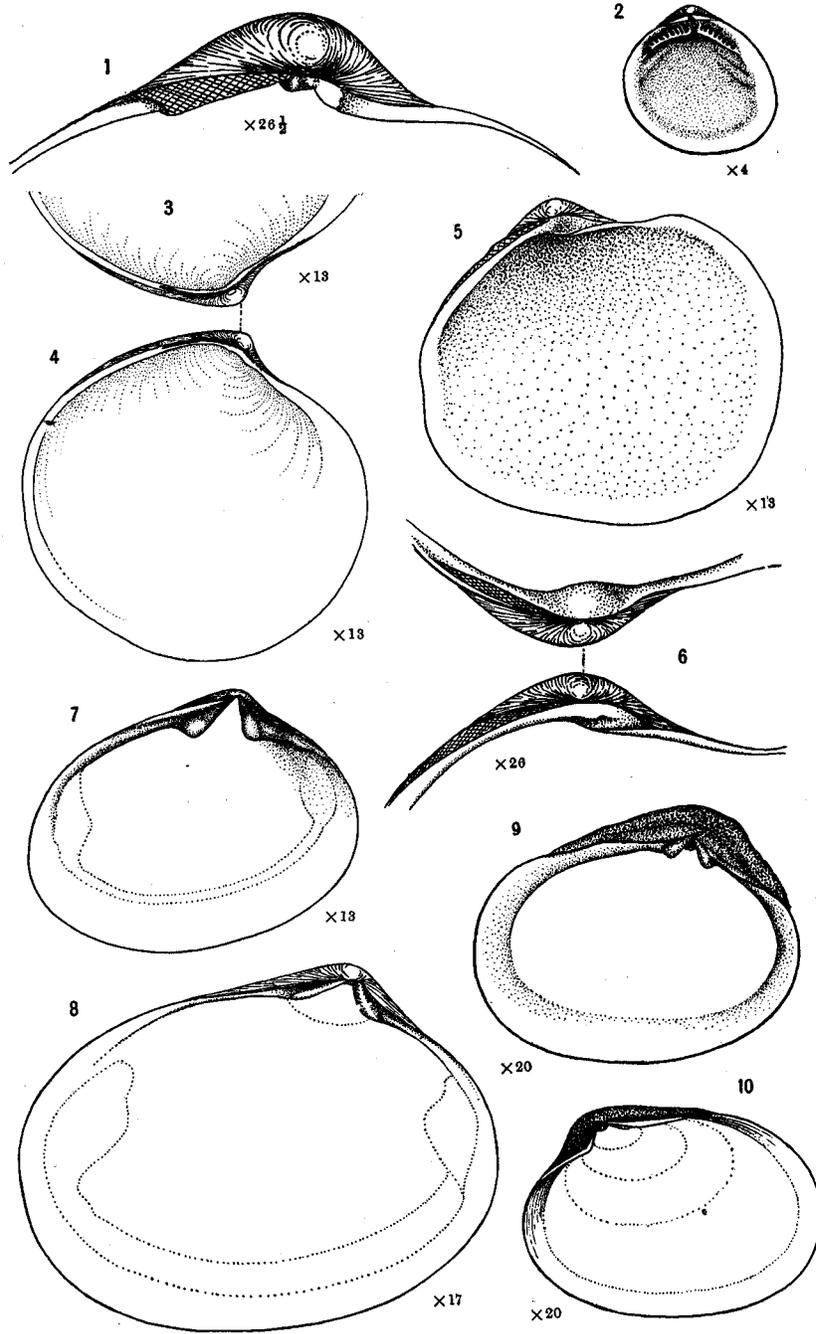
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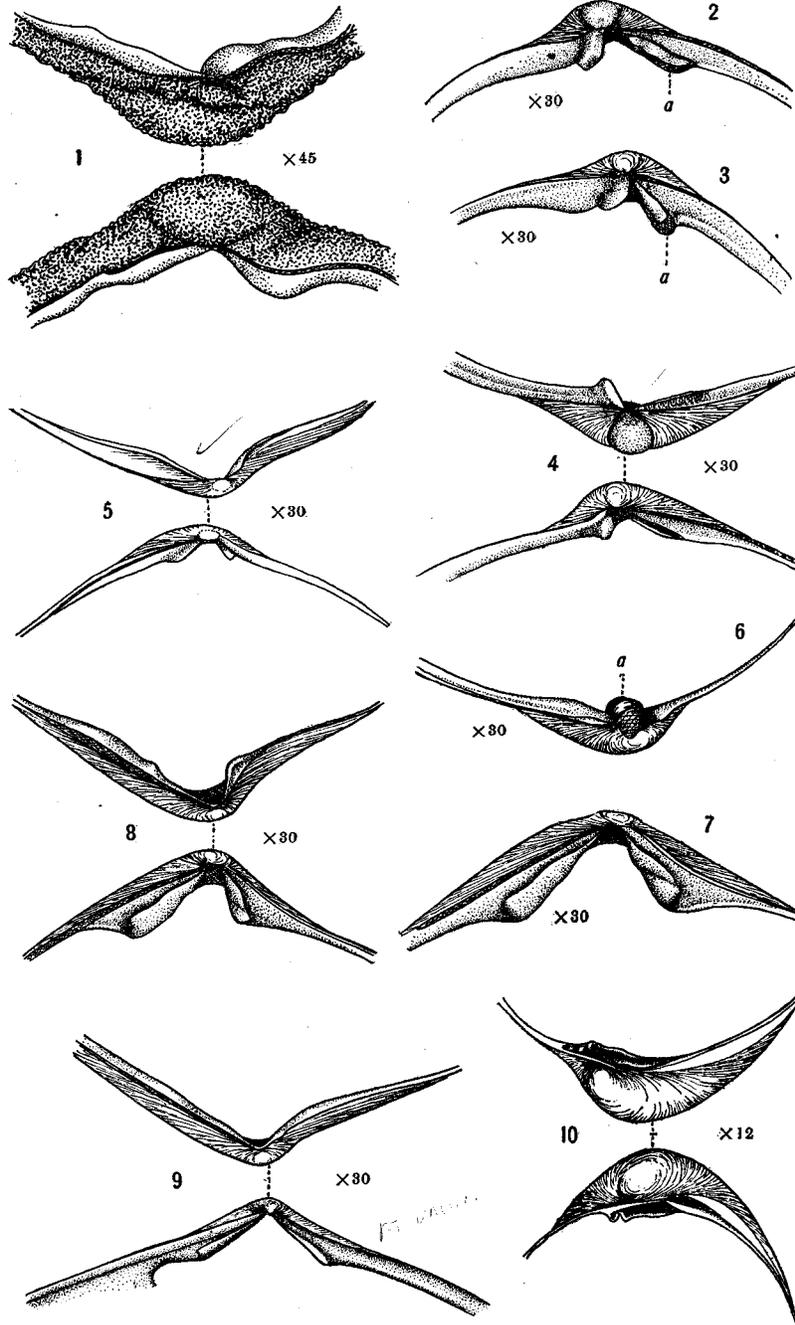
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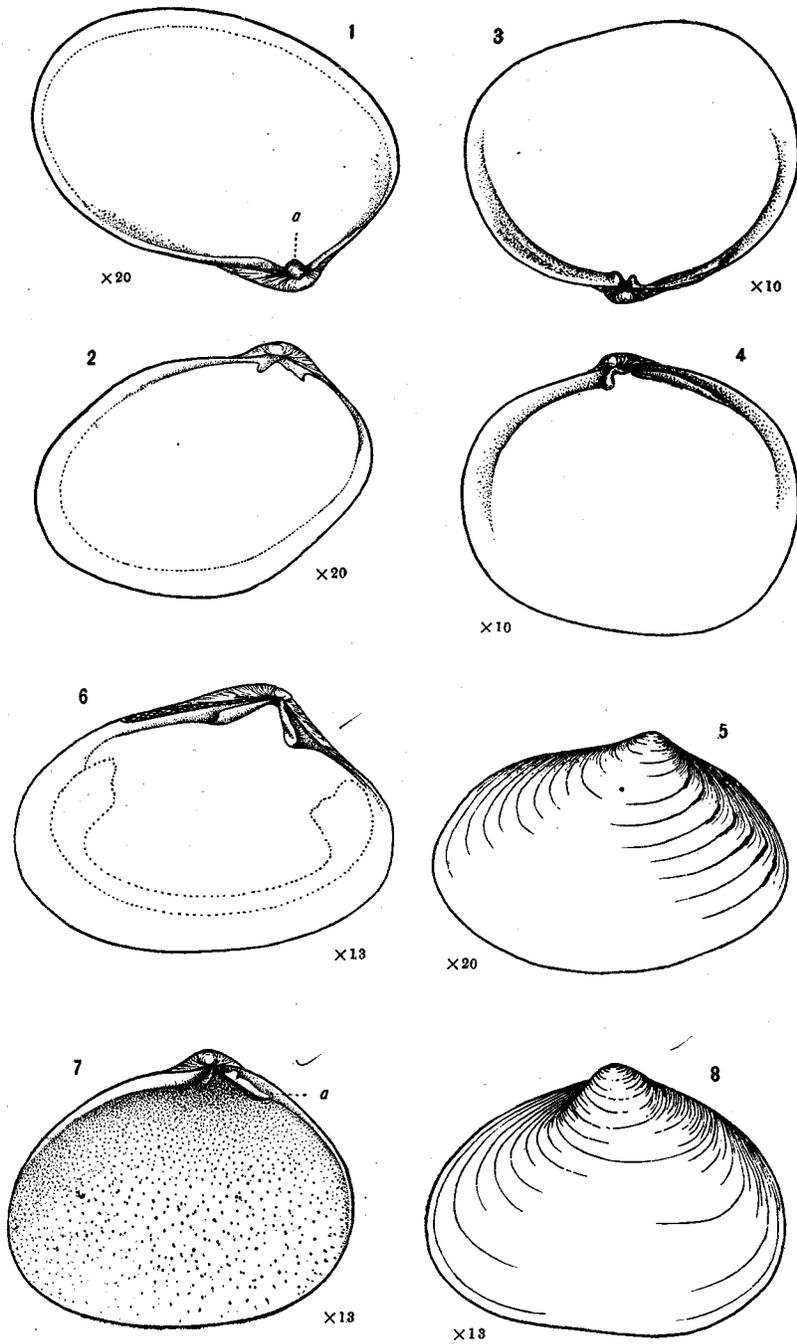
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FOR EXPLANATION OF PLATE SEE PAGES 894, 895.



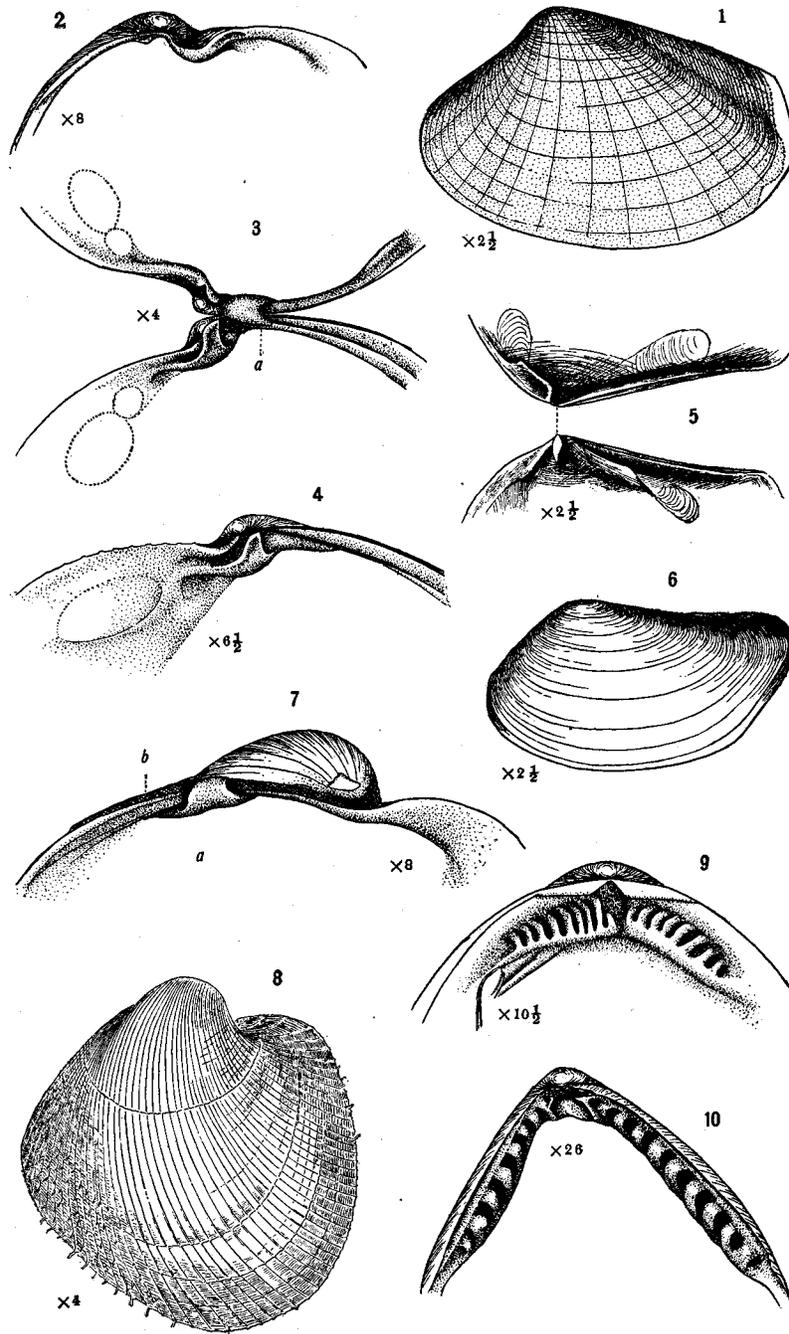
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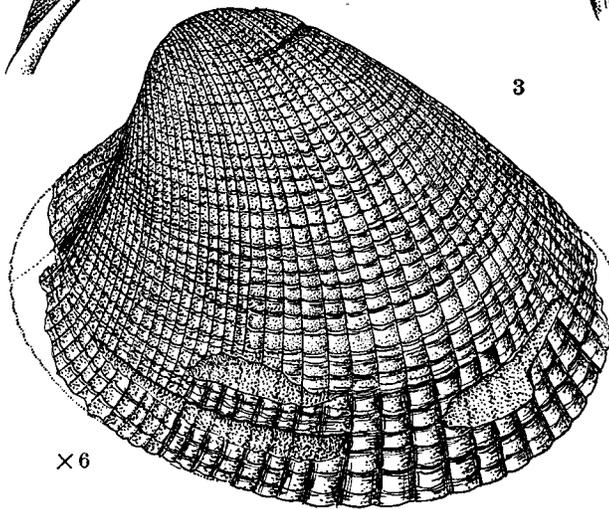
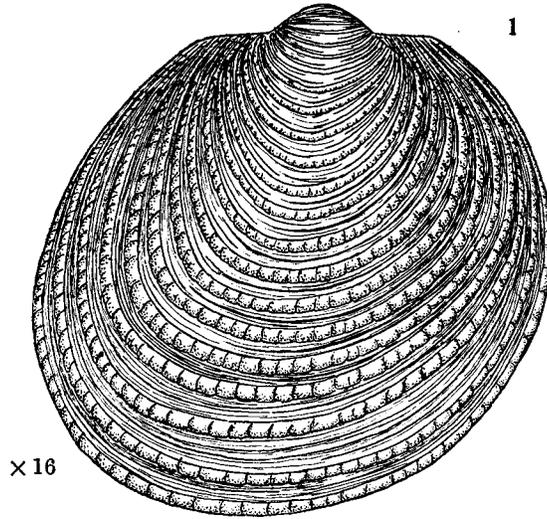
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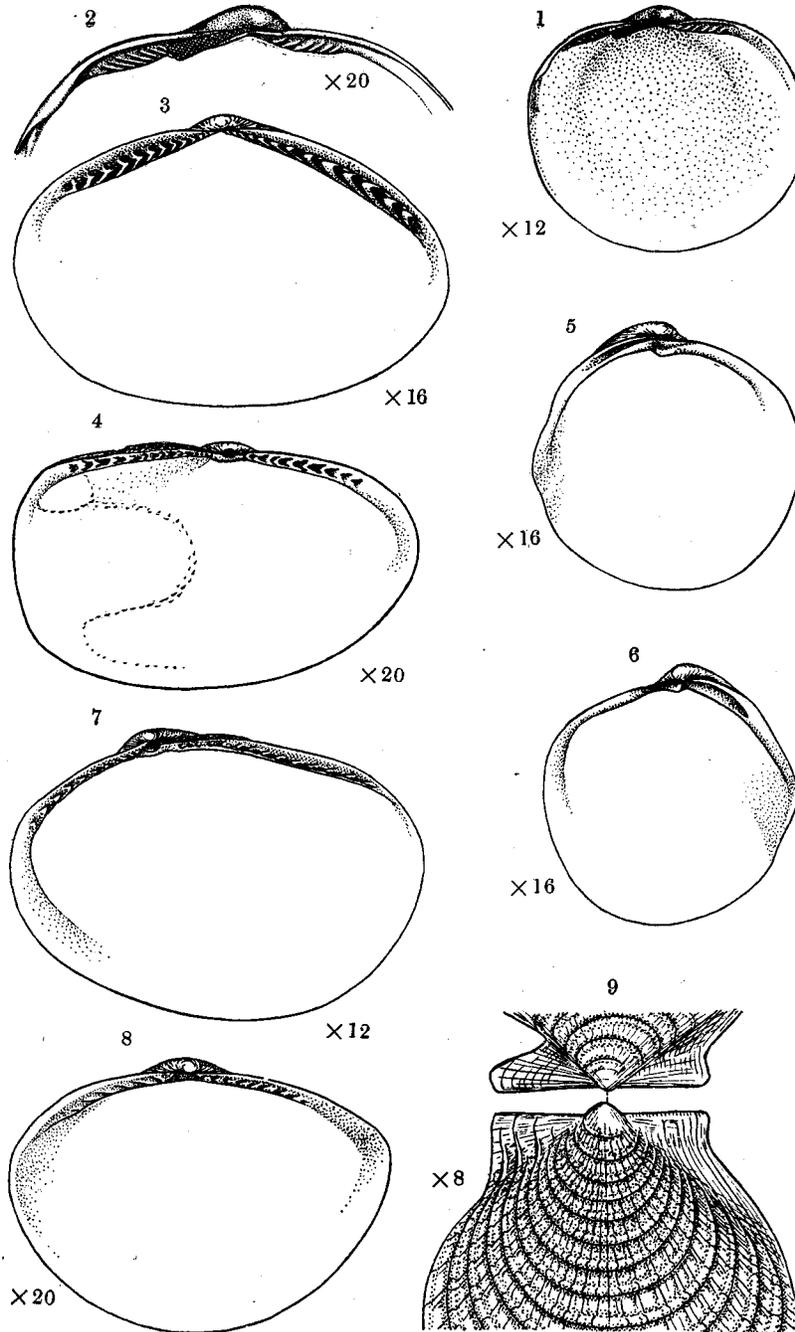
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FOR EXPLANATION OF PLATE SEE PAGES 895, 896.



DEEP SEA BIVALVES.

FOR EXPLANATION OF PLATE SEE PAGE 896.



DEEP SEA BIVALVES.

FOR EXPLANATION OF PLATE SEE PAGE 896.